

Appl. No. 09/681,992
Amdt. dated July 21, 2005
Reply to Office action of April 21, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 5 Claim 1 (Currently Amended): An interleaved local suspend and reset method for a wireless communications system, the wireless communications system comprising a first station in wireless communications with a second station along at least one channel, the method comprising:
- 10 the first station initiating a local suspend function for the channel, a suspend point determined by a first sequence number (SN);
- prior to a resume command to terminate the local suspend function, initiating a reset procedure for the channel, the reset procedure causing a next layer 2 protocol data unit (PDU) to be transmitted have an SN equal to a default value;
- 15 in response to the reset procedure, setting the first SN of the suspend point equal to the default value; and
- awaiting the resume command for the channel to terminate the local suspend function;
- wherein the default value is zero.
- 20 Claim 2 (Previously Presented): The method of claim 1 wherein setting the first SN of the suspend point equal to the default value causes the first station to thereafter immediately halt transmission of layer 2 PDUs to the second station along the channel while the local suspend function for the channel is active.
- 25 Claim 3 (Original): The method of claim 2 wherein the suspend point comprises a hyper-frame number (HFN) associated with the SN of the suspend point, and in response to the reset procedure, the HFN is set equal to a transmitting HFN of the first station.

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Claim 4 (Original): The method of claim 1 wherein a prior ciphering configuration for the channel is used before the resume command, and a new ciphering configuration is used for the channel after the resume command.

- 5 Claim 5 (Currently Amended): An interleaved local suspend and reset method for a wireless communications system, the wireless communications system comprising a first station in wireless communications with a second station along at least one channel, the method comprising:
- 10 the first station initiating a local suspend function for the channel, a suspend point determined by a first sequence number (SN) and a first hyper-frame number (HFN) to form a first HFN/SN pair;
- 15 prior to a resume command to terminate the local suspend function, initiating a reset procedure for the channel, the reset procedure causing a next layer 2 protocol data unit (PDU) to be transmitted have an associated HFN/SN pair having an incremented HFN value and an SN value equal to zero;
- after the reset procedure, and prior to terminating the local suspend function, the first station transmitting along the channel to the second station no layer 2 PDUs having associated HFN/SN pairs that are sequentially after the first HFN/SN pair; and
- 20 awaiting the resume command for the channel to terminate the local suspend function.

Claim 6 (Original): The method of claim 5 wherein a prior ciphering configuration for the channel is used before the resume command, and a new ciphering configuration is used for the channel after the resume command.

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Claim 7 (Original): The method of claim 5 wherein after the reset procedure, and prior to terminating the local suspend function, the first station transmits along the channel to the second station layer 2 PDUs having associated HFN/SN pairs that are

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sequentially before the first HFN/SN pair.